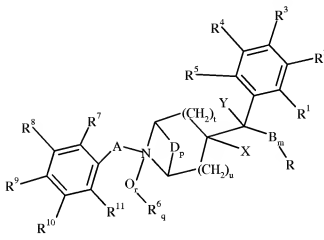


**Listing of the Claims**

This listing of the claims replaces all prior versions and listings of claims in the application.

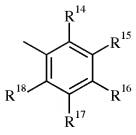
1. (Cancelled)
2. (Currently Amended) ~~The compound of claim 1;~~ A compound of formula I;



**I**

wherein m, q and p are 0; t and u are 1; A is  $-\text{CH}_2-$ ; X is selected from halogen, hydroxyl or alkoxy carbonyl; Y is selected from hydrogen, halogen or hydroxyl;  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy,  $-\text{CH}_2(\text{OH})\text{CH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ , 1,3-dioxolan-2-yl, or  $\text{R}^2$  and  $\text{R}^3$  taken together with  $-\text{OCF}_2\text{O}-$ ;  $\text{R}^5$  is hydrogen;  $\text{R}^7$ ,  $\text{R}^{10}$  and  $\text{R}^{11}$  are hydrogen;  $\text{R}^8$  is selected from hydrogen, halogen, alkyl or alkoxy;  $\text{R}^9$  is selected from alkoxy, alkoxyalkoxy, alkoxyalkoxyalkoxy, cyclopropylmethoxy, 2-halophenoxy, 3-halophenoxy, 4-halophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-halo-pyrid-2-yl, 3-alkyl-pyrid-2-yloxy, 4-alkyl-pyrid-2-yloxy, 5-alkyl-pyrid-2-yloxy, 6-alkyl-pyrid-2-yloxy, 3-halo-pyrid-2-yloxy, 3-trihaloalkyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dialkoxyalkyl-pyrid-2-yloxy, pyrid-2-yloxy,  $\text{CO}_2\text{CH}(\text{CH}_3)_2$ ,  $-\text{CH}=\text{NOCH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ ,  $-\text{CH}=\text{NOCH}_2\text{CF}_3$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}=\text{CH}_2$ ,  $-\text{CH}=\text{NOCH}_2\text{CN}$ ,  $-\text{CH}=\text{NOCH}(\text{CH}_3)_2$ ,  $-\text{CH}=\text{NOCH}_2\text{C}\equiv\text{CH}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{F}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{CH}=\text{NOCH}_2\text{OC}_2\text{H}_5$ , -

CH=NOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, -NHCO<sub>2</sub>CH<sub>3</sub>, -NHCO<sub>2</sub>C<sub>2</sub>H<sub>5</sub>, -NHCO<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, -NHCO<sub>2</sub>CH<sub>2</sub>-*c*-C<sub>3</sub>H<sub>5</sub>, -CH(OH)C<sub>6</sub>H<sub>5</sub>-*p*-Cl, -OC(=O)NHCH<sub>3</sub>, -OC(=O)NHC<sub>2</sub>H<sub>5</sub>, -OC(=O)NHCH(CH<sub>3</sub>)<sub>2</sub>, -NHC(SCH<sub>3</sub>)=NCN, pyrimidin-2-yloxy, 6-halo-pyridazin-3-yloxy, 6-alkoxy-pyridazin-3-yloxy, 6-alkyl-pyridazin-3-yloxy, 2-alkyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dialkyl-1,3-dioxan-2-yl; and R is phenyl substituted with R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, and R<sup>18</sup>,



where

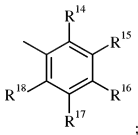
R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>17</sup> are independently selected from halogen, haloalkyl, haloalkoxy or R<sup>15</sup> and R<sup>16</sup> taken together with -OCF<sub>2</sub>O-; and R<sup>18</sup> is hydrogen

and

agriculturally-acceptable salts thereof.

3. (Original) The compound of claim 2, wherein X is selected from halogen, -CO<sub>2</sub>C<sub>2</sub>H<sub>5</sub> or hydroxyl; and R<sup>9</sup> is selected from -OC<sub>2</sub>H<sub>5</sub>, -OC<sub>3</sub>H<sub>7</sub>, -OCH(CH<sub>3</sub>)<sub>2</sub>, -OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, -CO<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, -CH=NOCH<sub>3</sub>, -CH=NOC<sub>2</sub>H<sub>5</sub>, -CH=NOCH<sub>2</sub>CF<sub>3</sub>, -CH=NOCH<sub>2</sub>CH=CH<sub>2</sub>, -CH=NOCH<sub>2</sub>CN, -CH=NOCH(CH<sub>3</sub>)<sub>2</sub>, -CH=NOCH<sub>2</sub>C=CH, -CH=NOCH<sub>2</sub>CH<sub>2</sub>F, -CH=NOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, -CH=NOCH<sub>2</sub>OC<sub>2</sub>H<sub>5</sub>, -CH=NOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, -NHCO<sub>2</sub>CH<sub>3</sub>, -NHCO<sub>2</sub>C<sub>2</sub>H<sub>5</sub>, -NHCO<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, -NHCO<sub>2</sub>CH<sub>2</sub>-*c*-C<sub>3</sub>H<sub>5</sub>, -CH(OH)C<sub>6</sub>H<sub>5</sub>-*p*-Cl, -OC(=O)NHCH<sub>3</sub>, -OC(=O)NHC<sub>2</sub>H<sub>5</sub>, -OC(=O)NHCH(CH<sub>3</sub>)<sub>2</sub>, -NHC(SCH<sub>3</sub>)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl.

4. (Original) The compound of claim 3, wherein X is selected from fluorine,  $-\text{CO}_2\text{C}_2\text{H}_5$  or hydroxyl; Y is selected from hydrogen, fluorine, chlorine or hydroxyl;  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are independently selected from hydrogen, halogen, alkyl, tert-butyl, methoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy,  $-\text{OCF}_2\text{CHF}_2$ ,  $-\text{CH}_2(\text{OH})\text{CH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ , 1,3-dioxolan-2-yl or  $\text{R}^2$  and  $\text{R}^3$  taken together with  $-\text{OCF}_2\text{O}-$ ;  $\text{R}^8$  is hydrogen;  $\text{R}^9$  is selected from  $-\text{OCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{CH}=\text{NOCH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ ,  $-\text{CH}=\text{NOCH}_2\text{CN}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$ ,  $-\text{OC}(=\text{O})\text{NHCH}(\text{CH}_3)_2$ , pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy or 6-methyl-pyridazin-3-yloxy; and R is phenyl substituted with  $\text{R}^{14}$ ,  $\text{R}^{15}$ ,  $\text{R}^{16}$ ,  $\text{R}^{17}$ , and  $\text{R}^{18}$ ,



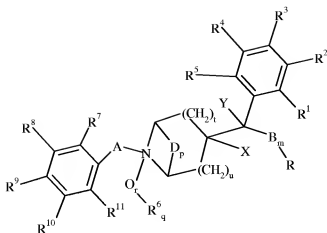
where

$\text{R}^{14}$ ,  $\text{R}^{15}$ ,  $\text{R}^{16}$  and  $\text{R}^{17}$  are independently selected from fluorine, chlorine, trifluoromethyl, difluoromethoxy, trifluoromethoxy,  $-\text{OCF}_2\text{CHF}_2$  or  $\text{R}^{15}$  and  $\text{R}^{16}$  taken together with  $-\text{OCF}_2\text{O}-$ .

5. (Original) The compound of claim 4, wherein X is hydroxyl; Y is hydrogen;  $\text{R}^3$  is haloalkoxy;  $\text{R}^9$  is selected  $-\text{OCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{CH}=\text{NOCH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ ,  $-\text{CH}=\text{NOCH}_2\text{CN}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$ ,  $-\text{OC}(=\text{O})\text{NHCH}(\text{CH}_3)_2$ , pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and  $\text{R}^{16}$  is haloalkoxy.

6. (Cancelled)

7. (Original) A compound of formula I:



# I

wherein;

r is selected from 0 or 1; m, q and p are 0; t and u are 1;

A is  $-\text{CH}_2-$ ;

X is selected from halogen or hydroxyl;

Y is selected from hydrogen or hydroxyl;

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or  $-\text{CH}=\text{NOC}_2\text{H}_5$ ;

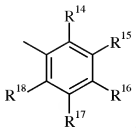
$\text{R}^5$  is hydrogen;

$\text{R}^7$ ,  $\text{R}^8$ ,  $\text{R}^{10}$  and  $\text{R}^{11}$  are hydrogen;

$\text{R}^9$  is selected from  $-\text{OC}_2\text{H}_5$ ,  $-\text{OC}_3\text{H}_7$ ,  $-\text{OCH}(\text{CH}_3)_2$ ,  $-\text{OCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{OCH}_2\text{CH}_2\text{CH}_2\text{OCH}_3$ , cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy,  $\text{CO}_2\text{CH}(\text{CH}_3)_2$ ,  $-\text{CH}=\text{NOCH}_3$ ,  $-\text{CH}=\text{NOC}_2\text{H}_5$ ,  $-\text{CH}=\text{NOCH}_2\text{CF}_3$ ,  $-\text{CH}=\text{NOallyl}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}=\text{CH}_2$ ,  $-\text{CH}=\text{NOCH}_2\text{CN}$ ,  $-\text{CH}=\text{NOCH}(\text{CH}_3)_2$ ,  $-\text{CH}=\text{NOCH}_2\text{C}=\text{CH}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{F}$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{CH}=\text{NOCH}_2\text{OC}_2\text{H}_5$ ,  $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_3$ ,  $-\text{NHCO}_2\text{CH}_3$ ,  $-\text{NHCO}_2\text{C}_2\text{H}_5$ ,  $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$ ,  $-\text{NHCO}_2\text{CH}_2-\text{c}-\text{C}_3\text{H}_5$ ,  $-\text{CH}(\text{OH})\text{C}_6\text{H}_5$ -p-Cl,  $-\text{OC}(=\text{O})\text{NHCH}_3$ ,  $-\text{OC}(=\text{O})\text{NHC}_2\text{H}_5$ , -

OC(=O)NHCH(CH<sub>3</sub>)<sub>2</sub>, -NHC(SCH<sub>3</sub>)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl; and

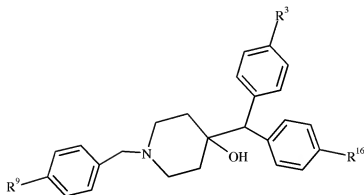
R is phenyl substituted with R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, and R<sup>18</sup>,



where

R<sup>16</sup> is selected from haloalkyl or haloalkoxy, and R<sup>14</sup>, R<sup>15</sup>, R<sup>17</sup> and R<sup>18</sup> are hydrogen.

8. (Original) A compound of formula **I-H**:



**I-H**

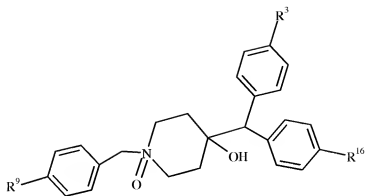
wherein,

R<sup>3</sup> is haloalkyl or haloalkoxy;

R<sup>9</sup> is selected from -OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

R<sup>16</sup> is haloalkyl or haloalkoxy.

9. (Original) A compound of formula **I-J**:



**I-J**

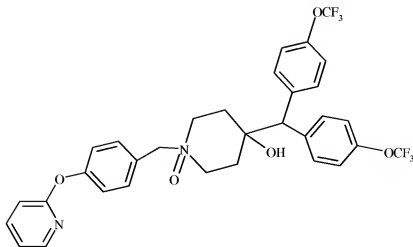
wherein,

$R^3$  is haloalkyl or haloalkoxy;

$R^9$  is selected from  $-OCH_2CH_2OCH_3$ , pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

$R^{16}$  is haloalkyl or haloalkoxy.

10. (Original) The compound:



namely, 4-{bis[4-(trifluoromethoxy)phenyl]methyl}-4-hydroxy-1-[(4-(2-pyridyloxy)phenyl)methyl]piperidin-1-oxide, and agriculturally-acceptable salts thereof.

11. (Cancelled)
12. (Original) A composition containing an insecticidally effective amount of a compound of claim 2 in admixture with at least one agriculturally acceptable extender or adjuvant.
13. (Original) A composition containing an insecticidally effective amount of a compound of claim 3 in admixture with at least one agriculturally acceptable extender or adjuvant.
14. (Original) A composition containing an insecticidally effective amount of a compound of claim 4 in admixture with at least one agriculturally acceptable extender or adjuvant.
15. (Original) A composition containing an insecticidally effective amount of a compound of claim 5 in admixture with at least one agriculturally acceptable extender or adjuvant.
16. (Cancelled)
17. (Original) A composition containing an insecticidally effective amount of a compound of claim 7 in admixture with at least one agriculturally acceptable extender or adjuvant.
18. (Original) A composition containing an insecticidally effective amount of a compound of claim 8 in admixture with at least one agriculturally acceptable extender or adjuvant.
19. (Original) A composition containing an insecticidally effective amount of a compound of claim 9 in admixture with at least one agriculturally acceptable extender or adjuvant.
20. (Original) A composition containing an insecticidally effective amount of a compound of claim 10 in admixture with at least one agriculturally acceptable extender or adjuvant.

21.-31. (Cancelled)

32. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 12 to a locus where insects are present or are expected to be present.

33. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 13 to a locus where insects are present or are expected to be present.

34. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 14 to a locus where insects are present or are expected to be present.

35. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 15 to a locus where insects are present or are expected to be present.

36. (Cancelled)

37. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 17 to a locus where insects are present or are expected to be present.

38. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 18 to a locus where insects are present or are expected to be present.

39. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 19 to a locus where insects are present or are expected to be present.



40. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 20 to a locus where insects are present or are expected to be present.